

--ABSTRACT

~~The present invention provides a multipurpose input device installed at a front~~
stage of a power supply circuit. The multipurpose input device is formed by winding a
fusible/resistance winding around a magnetic component having a high resistivity and a
high permeability. The fusible/resistance winding has the functions of a fusible link, an
inrush current limiter, and an EMC choke. The conventional three separate
subassemblies can be replaced with the multipurpose input device of the present
invention to reduce the cost and shrink the volume. The present invention also conforms
to the requirements of safety and EMC.--